



Carnegie Mellon
Software Engineering Institute

Process Maturity Profile

CMMI® SCAMPI™ Class A Appraisal Results 2008 Mid-Year Update

September 2008

We could not produce this report without the support of the organizations and lead appraisers who reported their appraisal results to the SEISM.

Our many thanks for their continuing cooperation with our data collection and analysis efforts.

CMMI Appraisal Program



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Outline

Introduction

Current Status

Community Trends

Organizational Trends

Summary And Terms used in this Briefing

How to Report your Appraisal Results to the SEI

This briefing is based solely on the appraisals reported to the SEI. It cannot be used as a source for an exact indicator of all organizations in the world using CMMI models or appraisal methods nor can it be used for certification or verification purposes.

The SEI does not certify appraisal results or organizations. The SEI licenses SEI Partners, authorizes lead appraisers, team leaders and certified high maturity lead appraisers to conduct appraisals. Neither the SEI nor any other organization is a “certifying authority” of the results from a SCAMPI appraisal. Therefore requests to the SEI to provide information to be used for this purpose can not be fulfilled. Information provided by the SEI, such as this briefing, is to demonstrate reported results of the use of CMMI products and services only.

Organizations performing source selection or verification should consider performing an evaluation appraisal. For more information on appraisal methods and for a directory of authorized lead appraisers who can perform them, visit:
<http://www.sei.cmu.edu/appraisal-program/>



Introduction: Purpose

Characterize the adoption of CMMI®

Describe results from Standard CMMI Appraisal Method for Process Improvement (SCAMPISM) v1.1/v1.2 Class A appraisals using Capability Maturity Model[®] Integration (CMMI) v1.1 /v1.2 *

Encourage continued reporting of results

* Organizations previously appraised against CMMI v1.0 and which have not reappraised against v 1.1 are not included in this report

Please visit: <http://www.sei.cmu.edu/appraisal-program/profile/index.html> for additional information or questions you may have about this briefing before contacting the SEI directly



Introduction - 2: Briefing Contents

This briefing includes three primary sections:

1. Current Status

- Snapshot of the software community based on the most recent appraisal, since 2002, of reporting organizations

2. Community Trends

- Global distribution of appraisals
- Growth in the number of appraisals performed
- Shifts in the maturity profile over time

3. Organizational Trends

- Analysis of Process Area (PA) satisfaction
- Time to move up in maturity based on change in maturity level and time between appraisals



Section 1: Current Status

SCAMPI v1.1/v1.2 Class A appraisals conducted from the SCAMPI V1.1 April 2002 release through June 2008 and reported to the SEI by July 2008

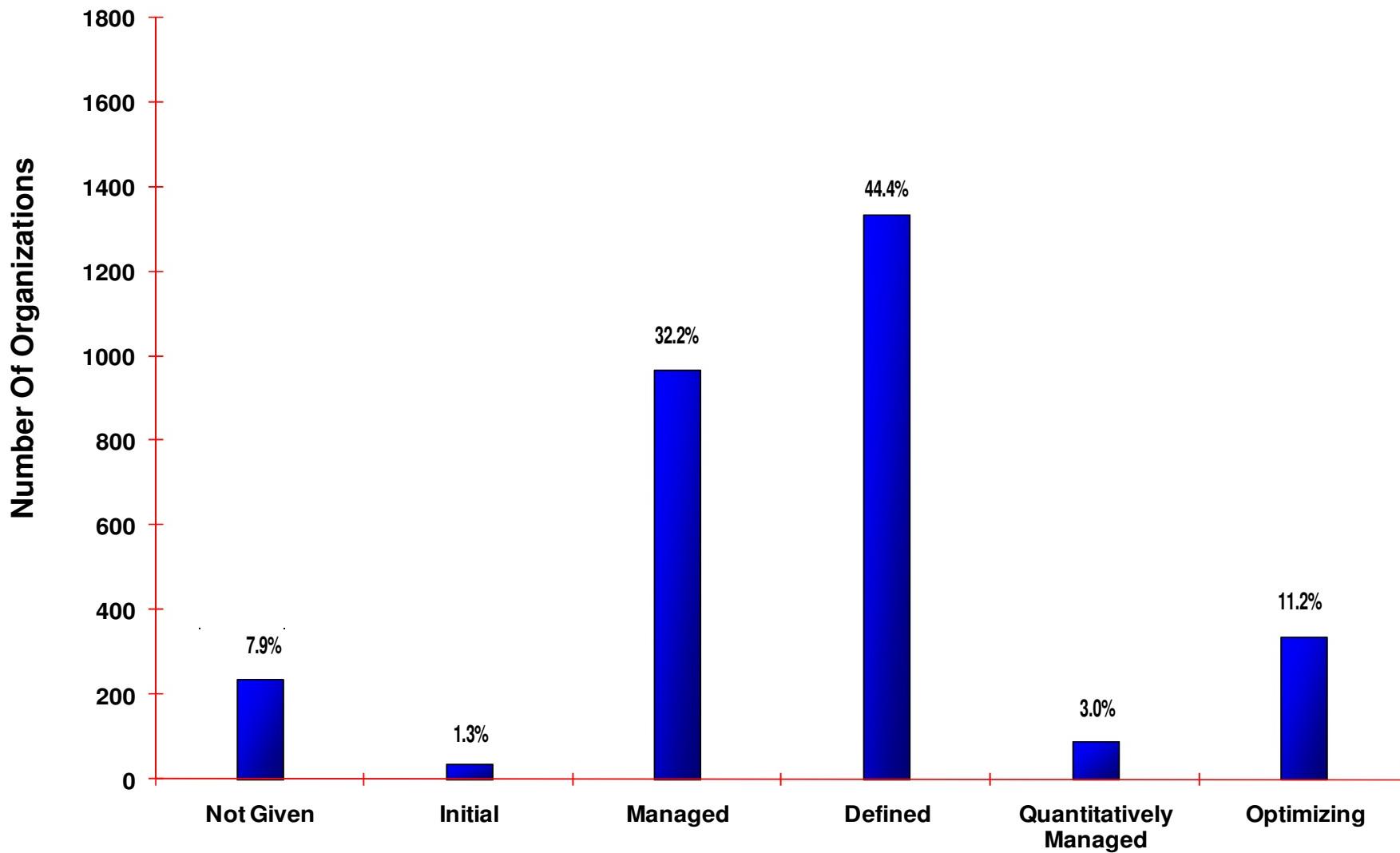
- **3,553 appraisals**
- **3,009 organizations**
- **2,168 participating companies**
- **451 reappraised organizations**
- **17,398 projects**
- **69.9% Non-USA organizations**

Please refer to: Terms Used in this Report on page 30

Additional charts providing different views and break down of this information will be added to this briefing as more appraisal data is reported to the SEI over time.



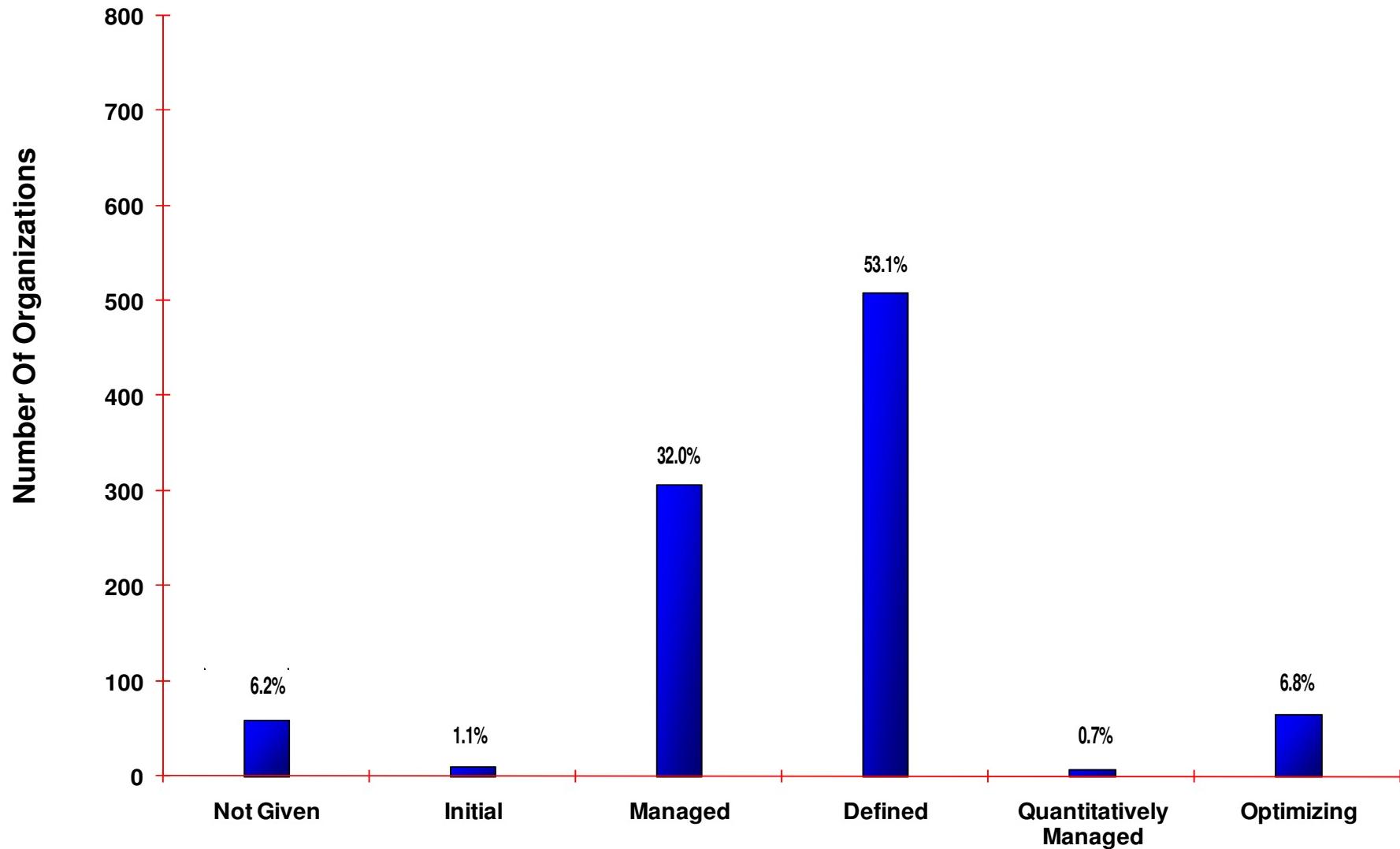
Process Maturity Profile by All Reporting Organizations



Based on most recent appraisal of **3009** organizations



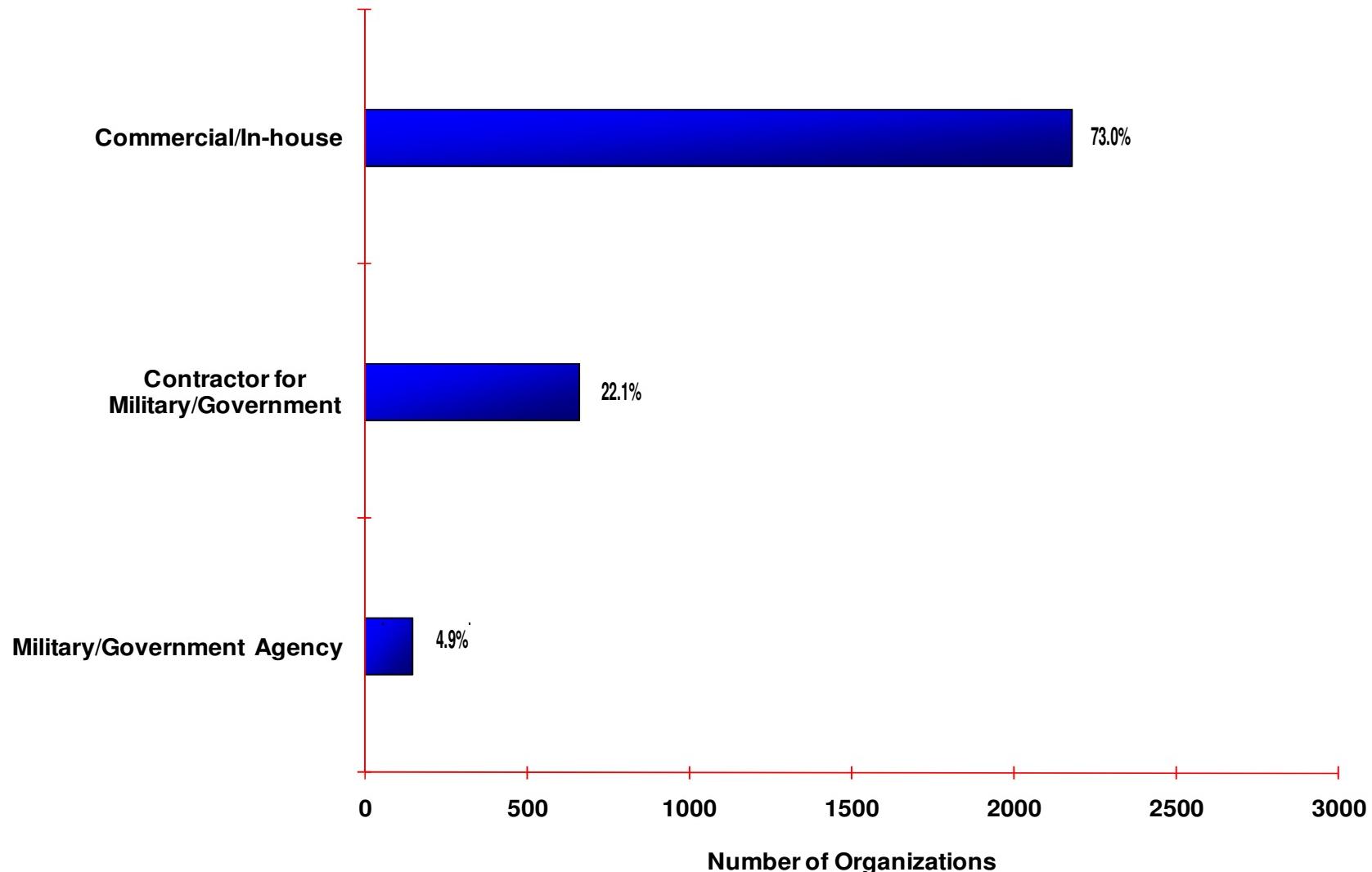
Process Maturity Profile (V1.2 Only) by All Reporting Organizations



Based on most recent appraisal of 958 organizations



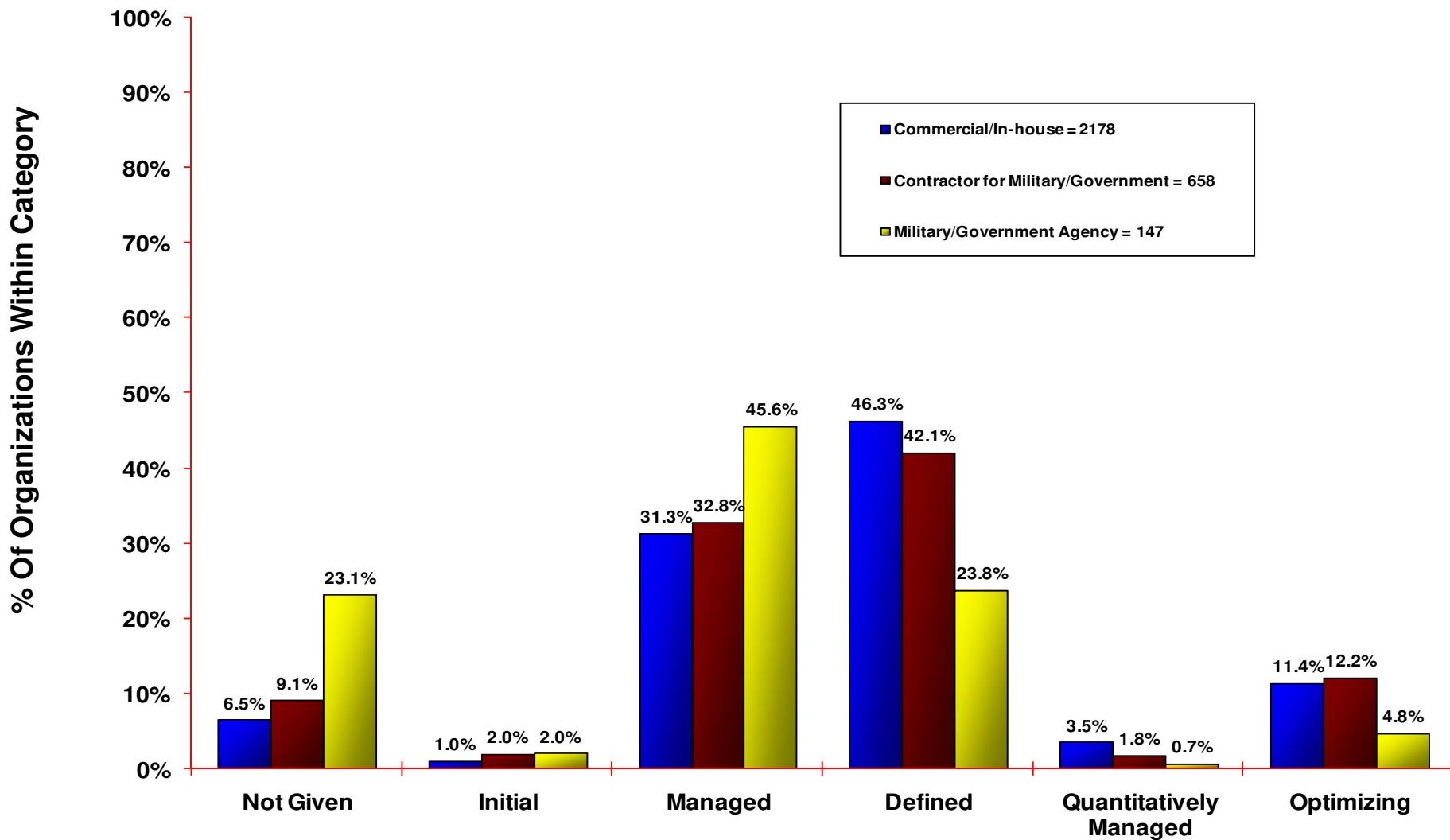
Reporting Organization Categories



Based on 2983 organizations reporting an organization category



Process Maturity Profile by Reporting Organization Categories

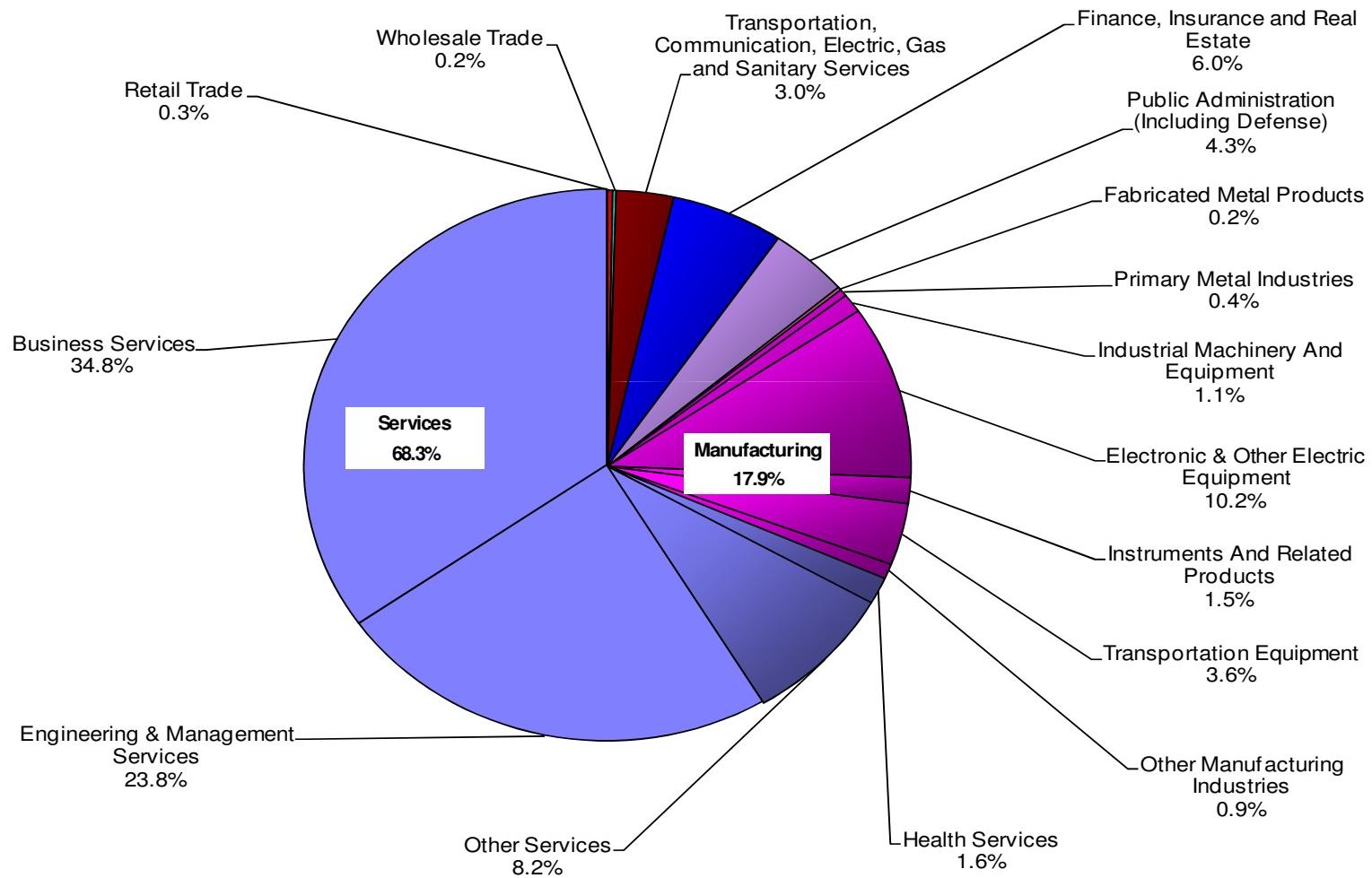


Based on most recent appraisal of 2983 organizations reporting an organization category



Organization Type

Based on Primary Standard Industrial Classification (SIC) Code

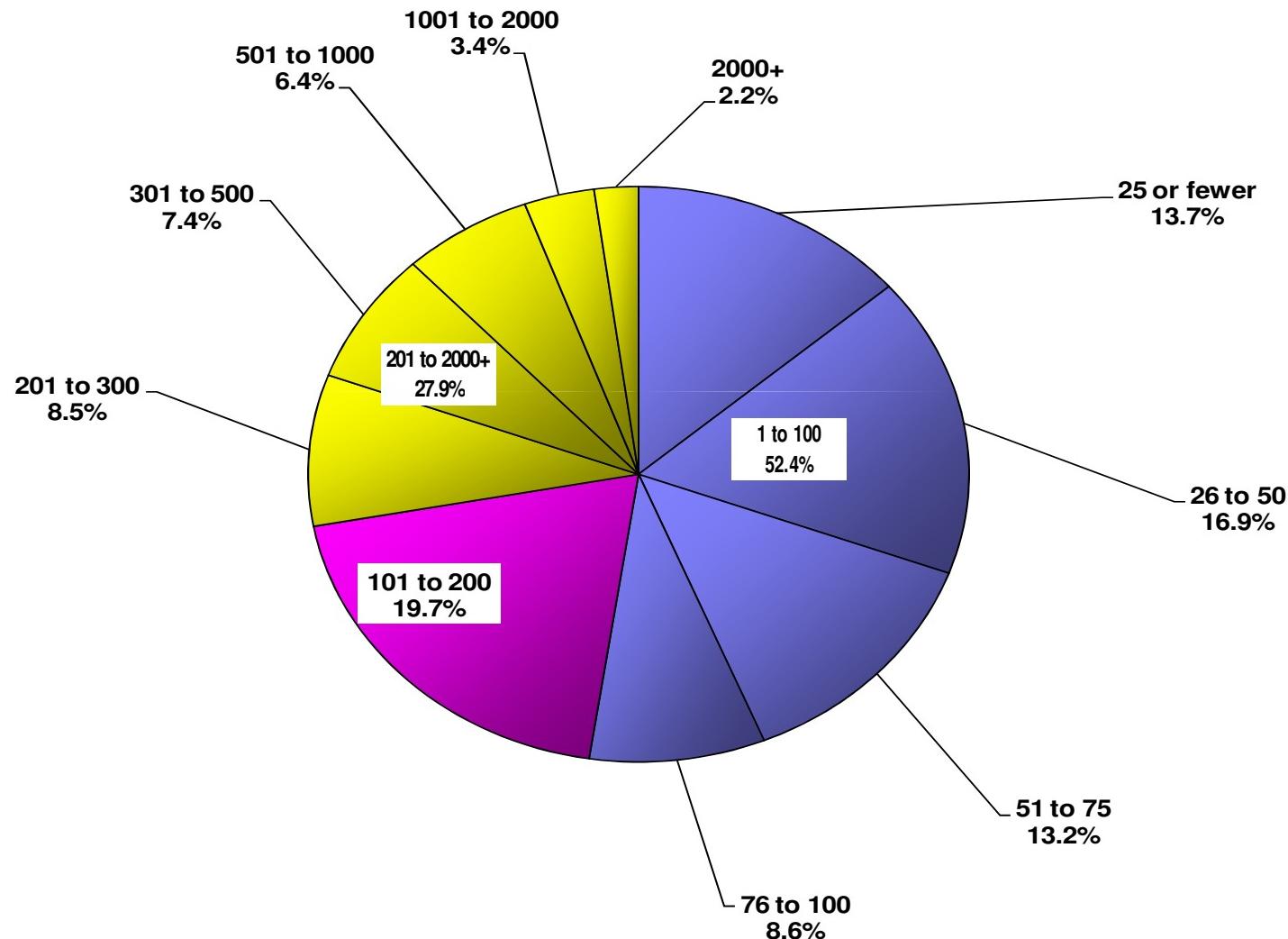


Based on 2165 organizations reporting SIC code. For more information visit: <http://www.osha.gov/oshstats/sicser.html>



Organization Size

Based on the total number of employees within the area of the organization that was appraised

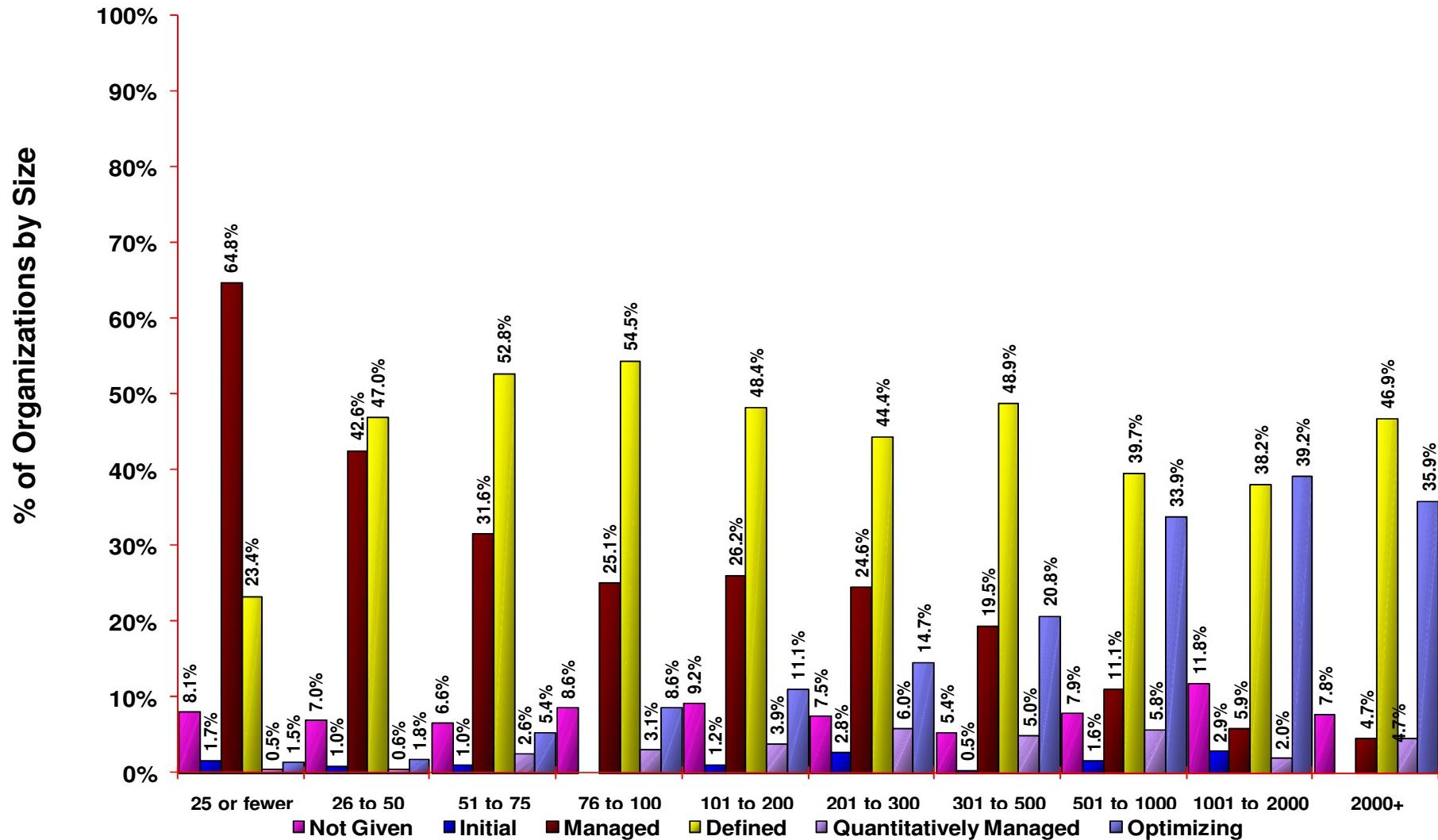


Based on 2968 organizations reporting size data



Maturity Profile by Organization Size

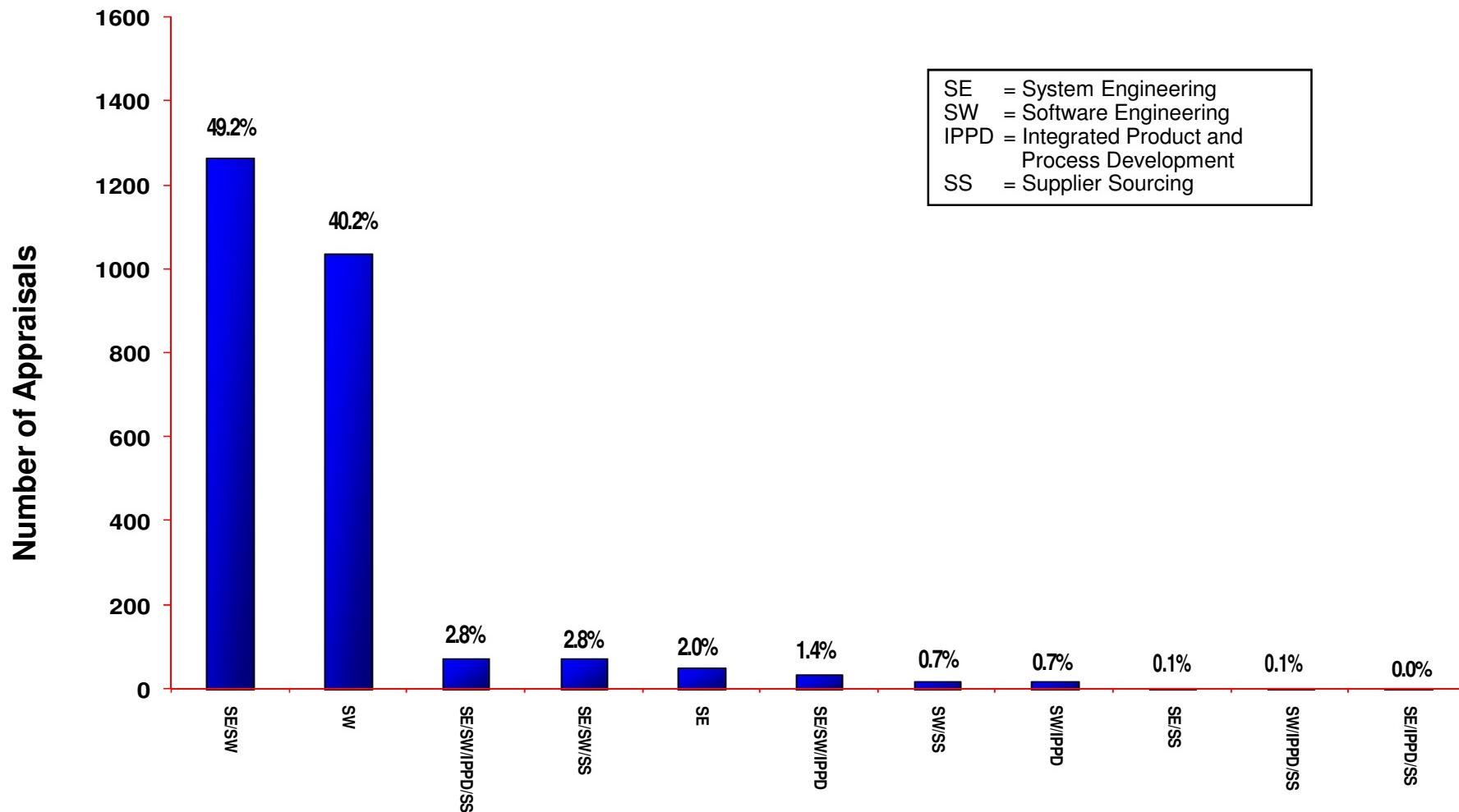
Based on the total number of employees within the area of the organization that was appraised



Based on 2968 organizations reporting size data



Disciplines Selected for Appraisals (V1.1 Only)

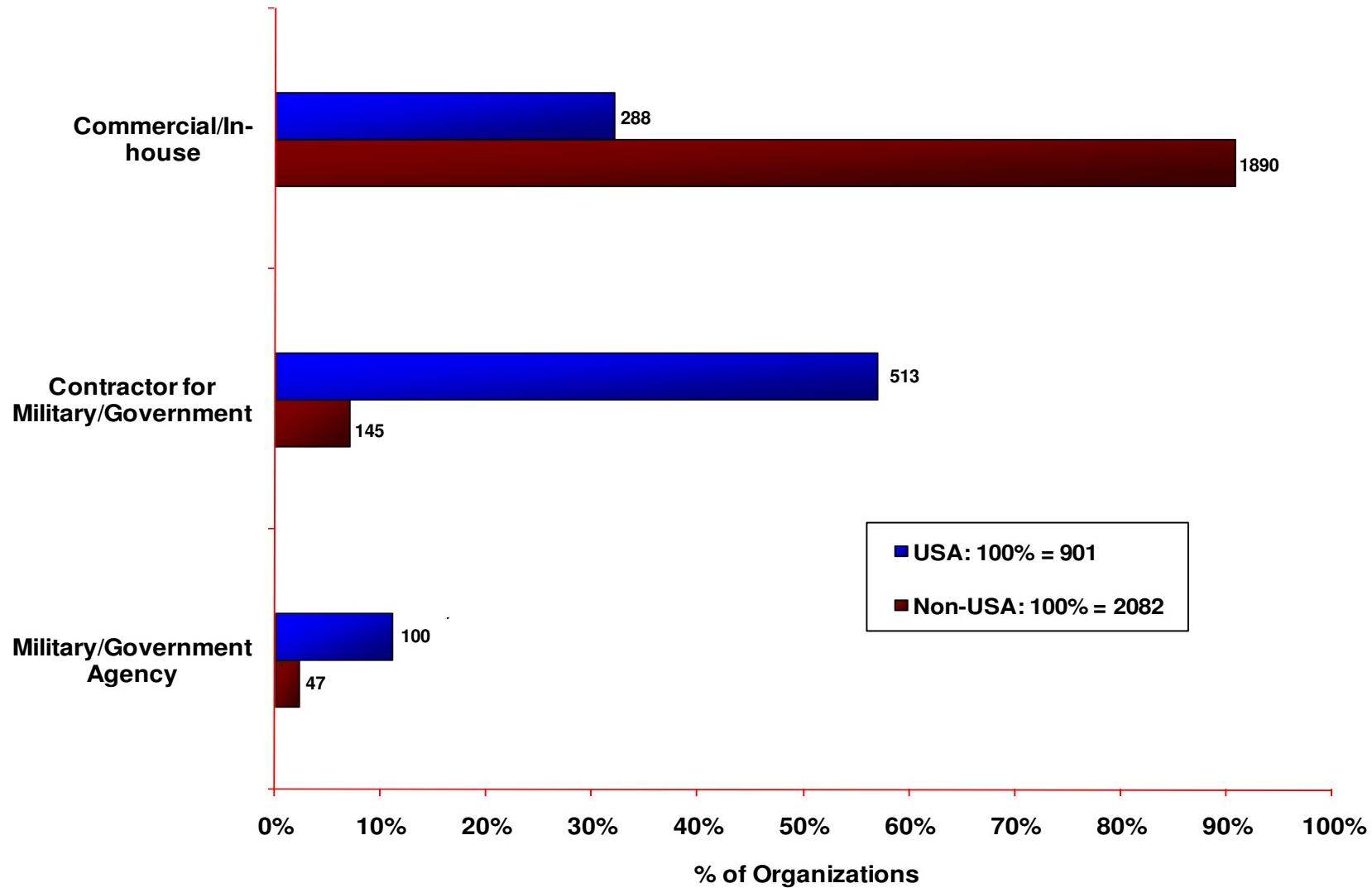


Based on 2,576 appraisals reporting discipline data

For more information about Allowable Models & Combinations, visit: <http://www.sei.cmu.edu/cmmi/background/aspec.html>



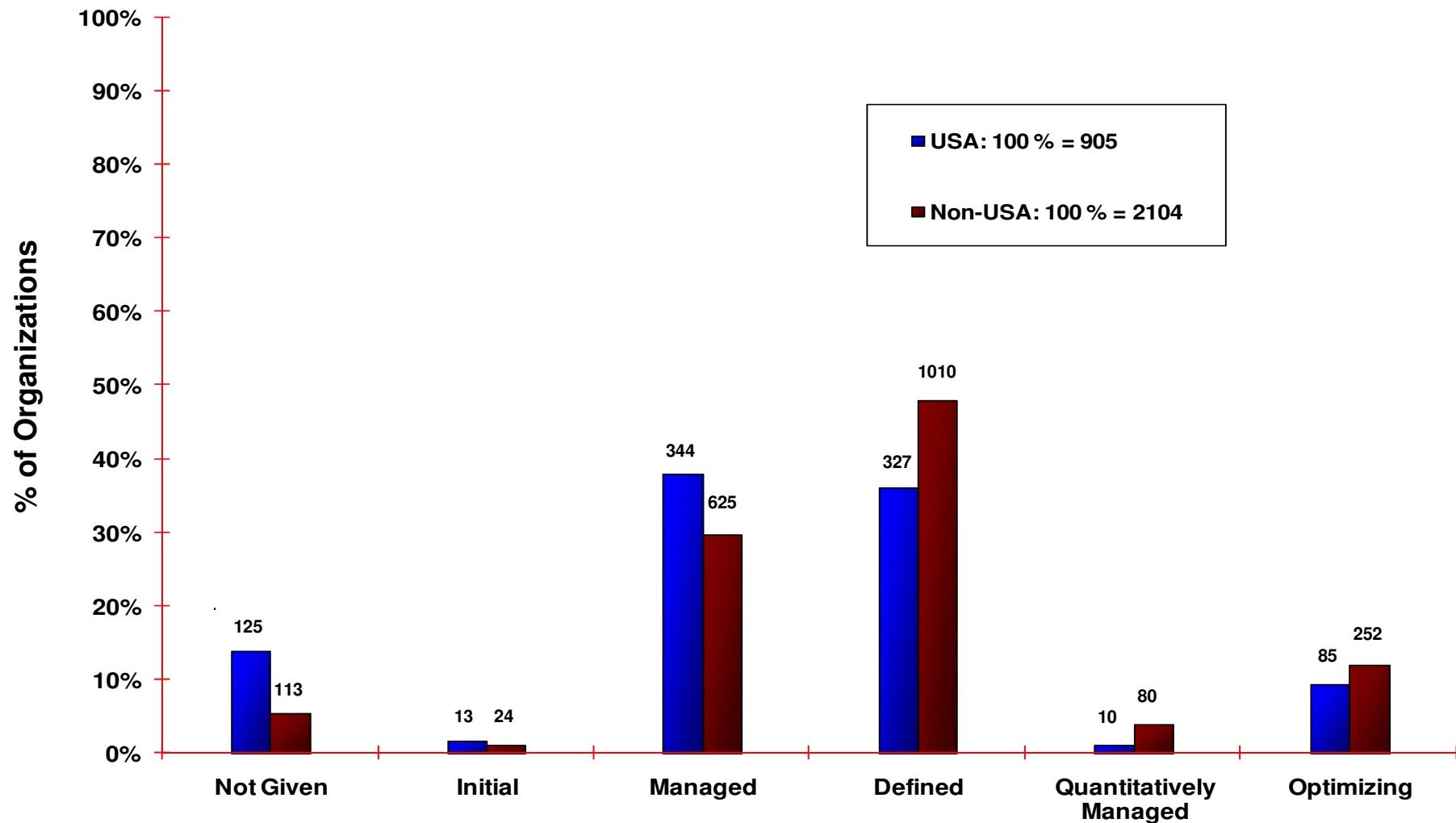
USA and Non-USA Reporting Organization Categories



Based on 905 USA organizations and 2082 Non-USA organizations reporting an organization category



Maturity Profile by All Reporting USA and Non-USA Organizations



Based on 905 USA organizations and 2104 Non-USA organizations



Section 2: Community Trends

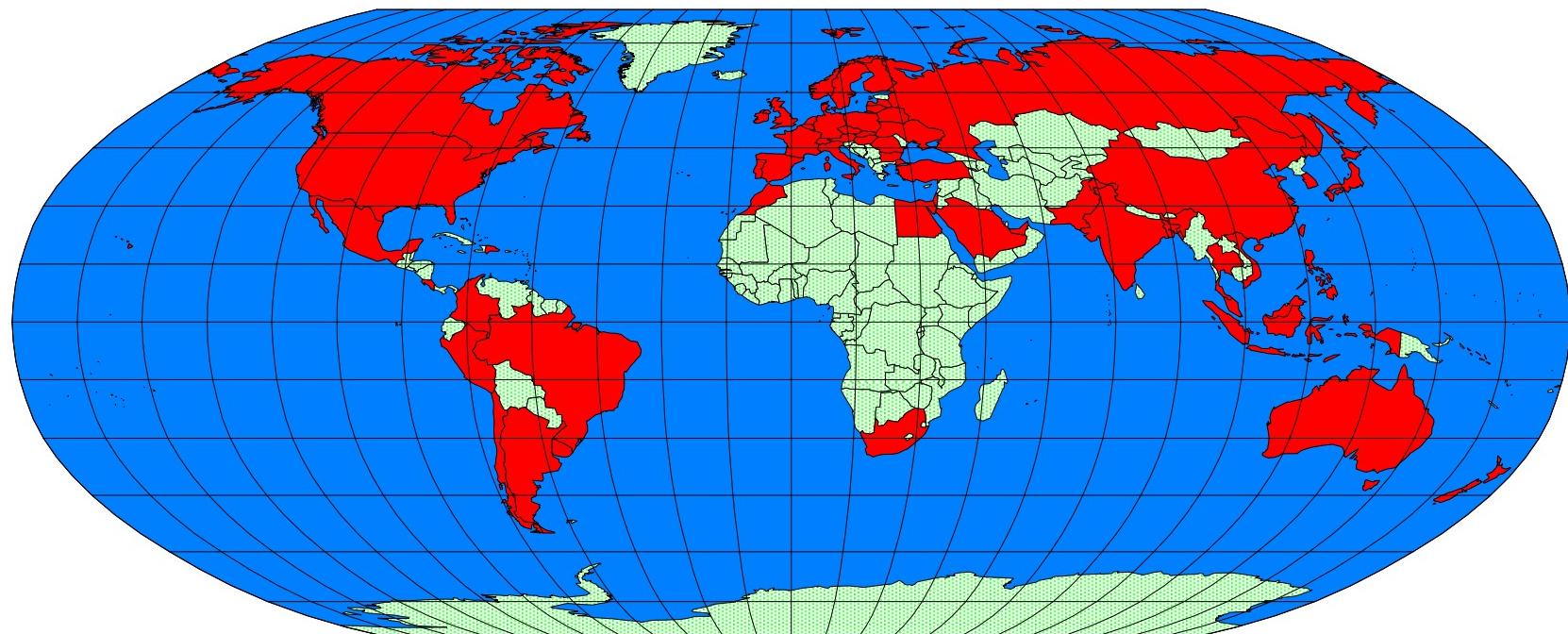
Appraisals conducted through June 2008 and reported to the SEI

- **63 Countries reported appraisals**
 - most of the appraisals are from Asia and North America
- **2583 Appraisals were posted on PARS**
 - the expired ones were removed and the reappraised were replaced by the newest appraisals
 - the posting rate is increasing and it is 88% for 2007 and it is 93 % for 2008

Please refer to: Terms Used in this Report on page 30



Countries where Appraisals have been Performed and Reported to the SEI

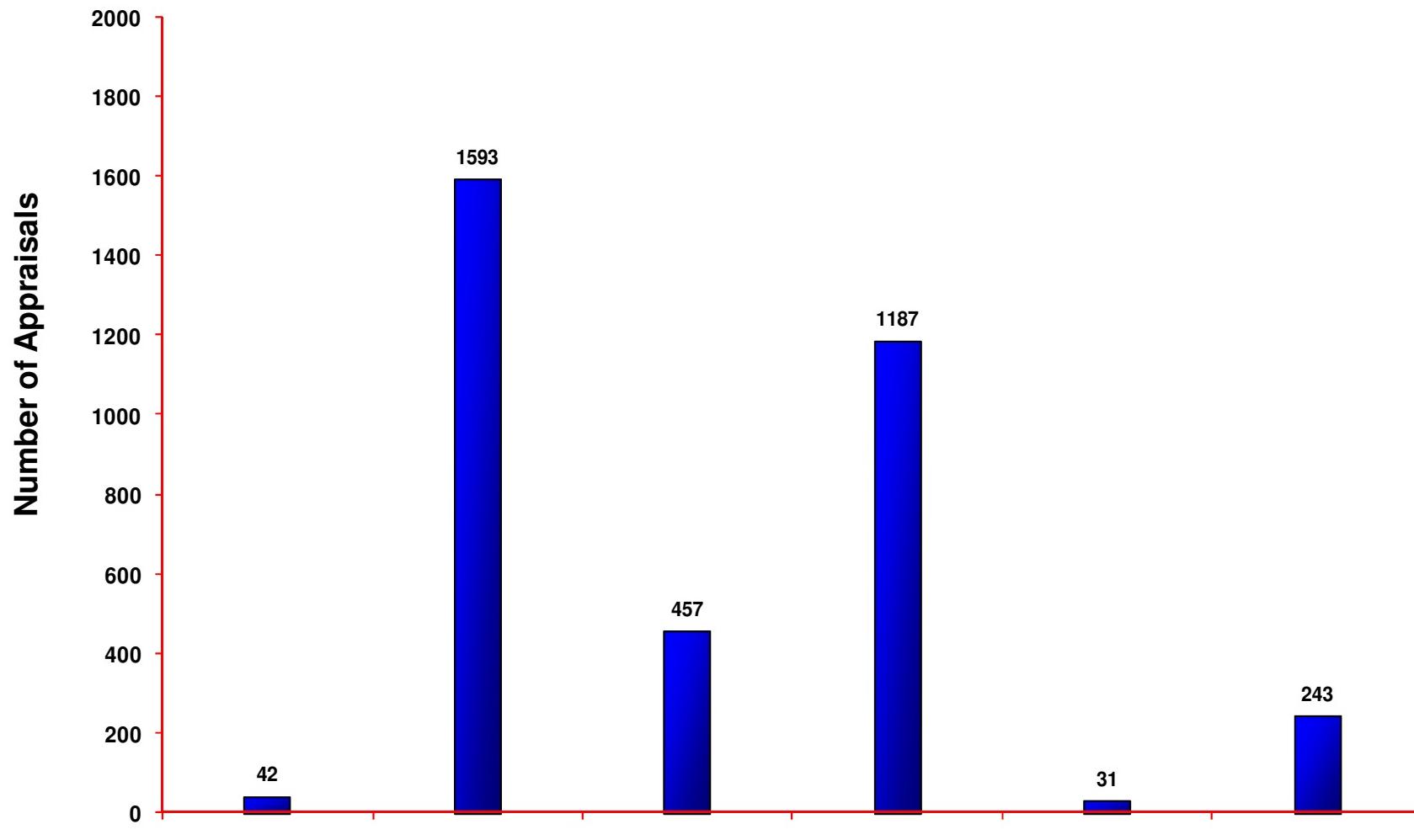


Argentina	Australia	Austria	Bahrain	Bangladesh	Belarus	Belgium	Brazil
Bulgaria	Canada	Chile	China	Colombia	Costa Rica	Czech Republic	Denmark
Dominican Republic	Egypt	Finland	France	Germany	Hong Kong	Hungary	India
Indonesia	Ireland	Israel	Italy	Japan	Korea, Republic Of	Latvia	Lithuania
Luxembourg	Malaysia	Mauritius	Mexico	Morocco	Netherlands	New Zealand	Norway
Pakistan	Peru	Philippines	Poland	Portugal	Romania	Russia	Saudi Arabia
Singapore	Slovakia	South Africa	Spain	Sweden	Switzerland	Taiwan	Thailand
Turkey	Ukraine	United Arab Emirates	United Kingdom	United States	Uruguay	Viet Nam	

Red country name: New additions with this reporting



Number of Appraisals Reported to the SEI by Continent



Based on 3553 appraisals

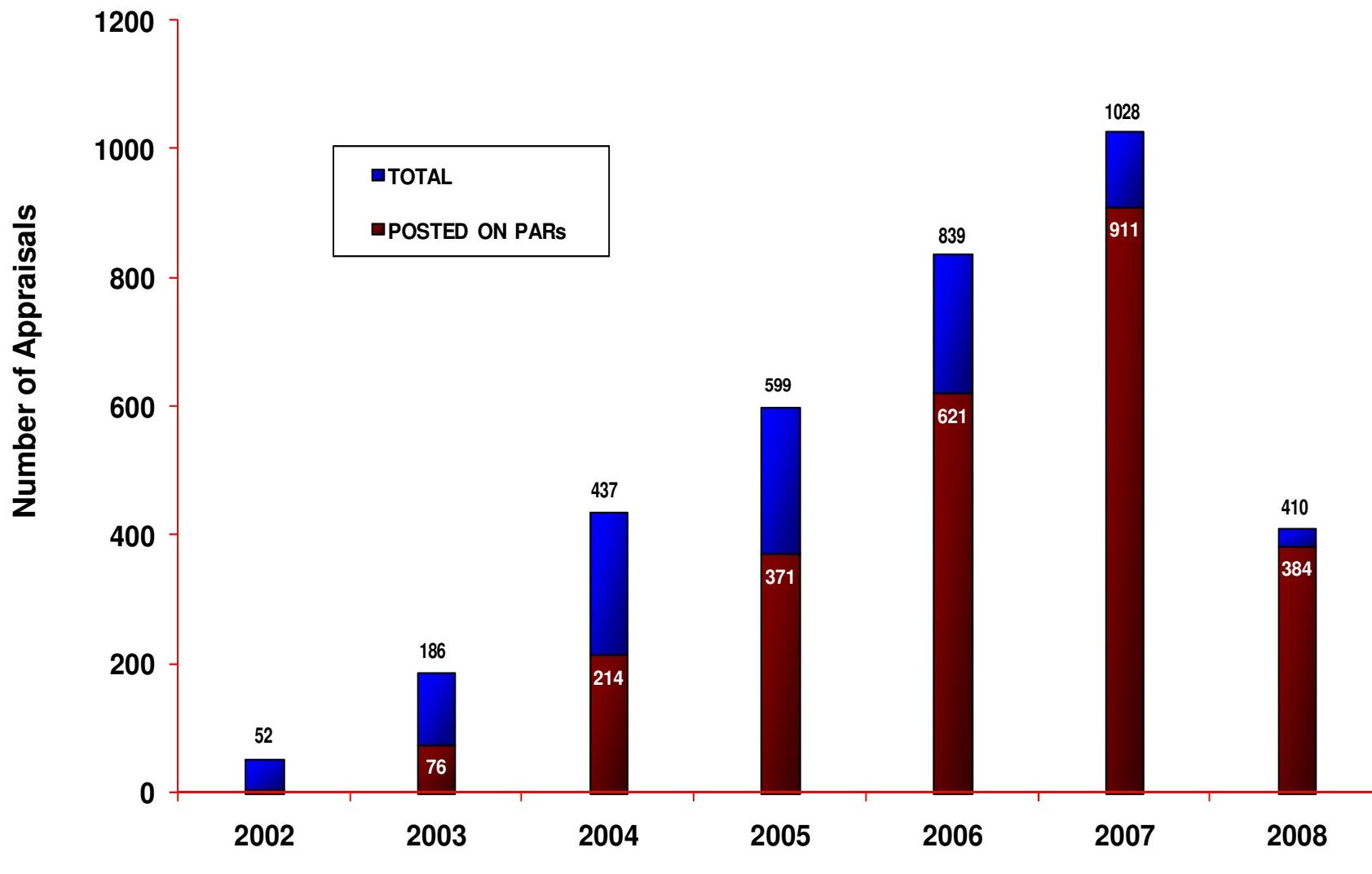


Number of Appraisals and Maturity Levels Reported to the SEI by Country

Country	Number of Appraisals	Maturity	Maturity	Maturity	Maturity	Maturity	Number of Appraisals	Maturity	Maturity	Maturity	Maturity	Maturity
		Level 1 Reported	Level 2 Reported	Level 3 Reported	Level 4 Reported	Level 5 Reported		Level 1 Reported	Level 2 Reported	Level 3 Reported	Level 4 Reported	Level 5 Reported
Argentina	57		40	10	2	3	Luxembourg	10 or fewer				
Australia	30	1	8	5	2	4	Malaysia	50		19	26	5
Austria	10 or fewer						Mauritius	10 or fewer				
Bahrain	10 or fewer						Mexico	45	1	20	17	3
Bangladesh	10 or fewer						Morocco	10 or fewer				
Belarus	10 or fewer						Netherlands	10 or fewer				
Belgium	10 or fewer						New Zealand	10 or fewer				
Brazil	88		41	35	1	8	Norway	10 or fewer				
Bulgaria	10 or fewer						Pakistan	24	1	17	4	1
Canada	47	1	11	20	5	3	Peru	10 or fewer				
Chile	27		17	8		1	Philippines	20		2	10	7
China	585	1	111	395	22	39	Poland	10 or fewer				
Colombia	19		6	10	1	2	Portugal	10 or fewer				
Costa Rica	10 or fewer						Romania	10 or fewer				
Czech Republic	10 or fewer						Russia	10 or fewer				
Denmark	10 or fewer						Saudi Arabia	10 or fewer				
Dominican Republic	10 or fewer						Singapore	16		3	8	1
Egypt	31	1	14	11	2	2	Slovakia	10 or fewer				
Finland	10 or fewer						South Africa	10 or fewer				
France	125	4	75	38	1	2	Spain	85	1	53	25	1
Germany	58	7	30	9	1	1	Sweden	10 or fewer				
Hong Kong	15		2	9		4	Switzerland	10 or fewer				
Hungary	10 or fewer						Taiwan	111	1	72	35	2
India	362	1	13	156	22	158	Thailand	13		7	4	1
Indonesia	10 or fewer						Turkey	11			9	2
Ireland	10 or fewer						Ukraine	10 or fewer				
Israel	16		3	9		2	United Arab Emirates	10 or fewer				
Italy	19		9	9			United Kingdom	79	3	39	26	1
Japan	241	17	69	103	13	15	United States	1136	26	404	394	21
Korea, Republic Of	112	1	35	49	11	7	Uruguay	10 or fewer				
Latvia	10 or fewer						Viet Nam	10 or fewer				
Lithuania	10 or fewer											



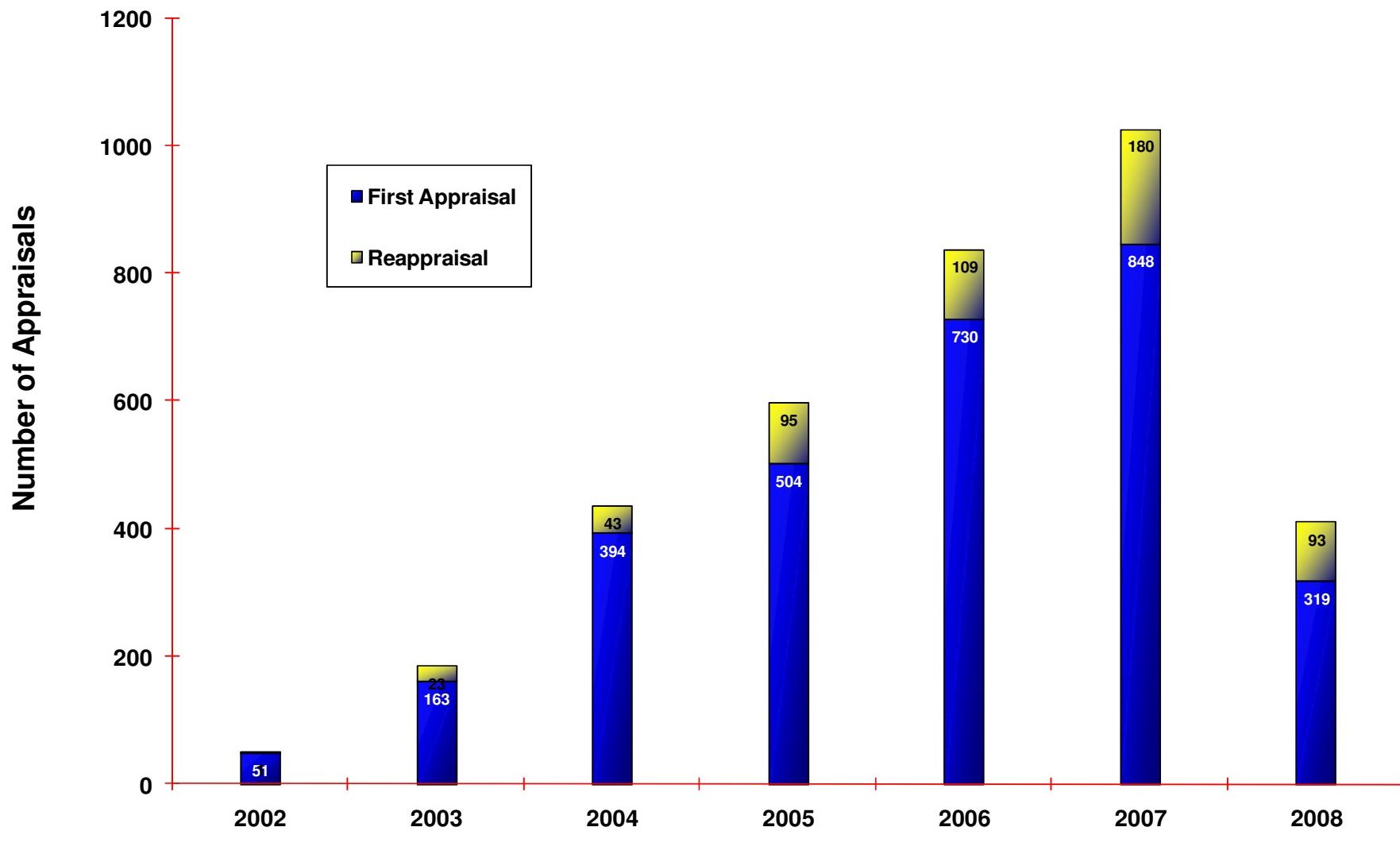
Number of SCAMPI A Appraisals Reported to SEI by Year



Based on 3553 appraisals



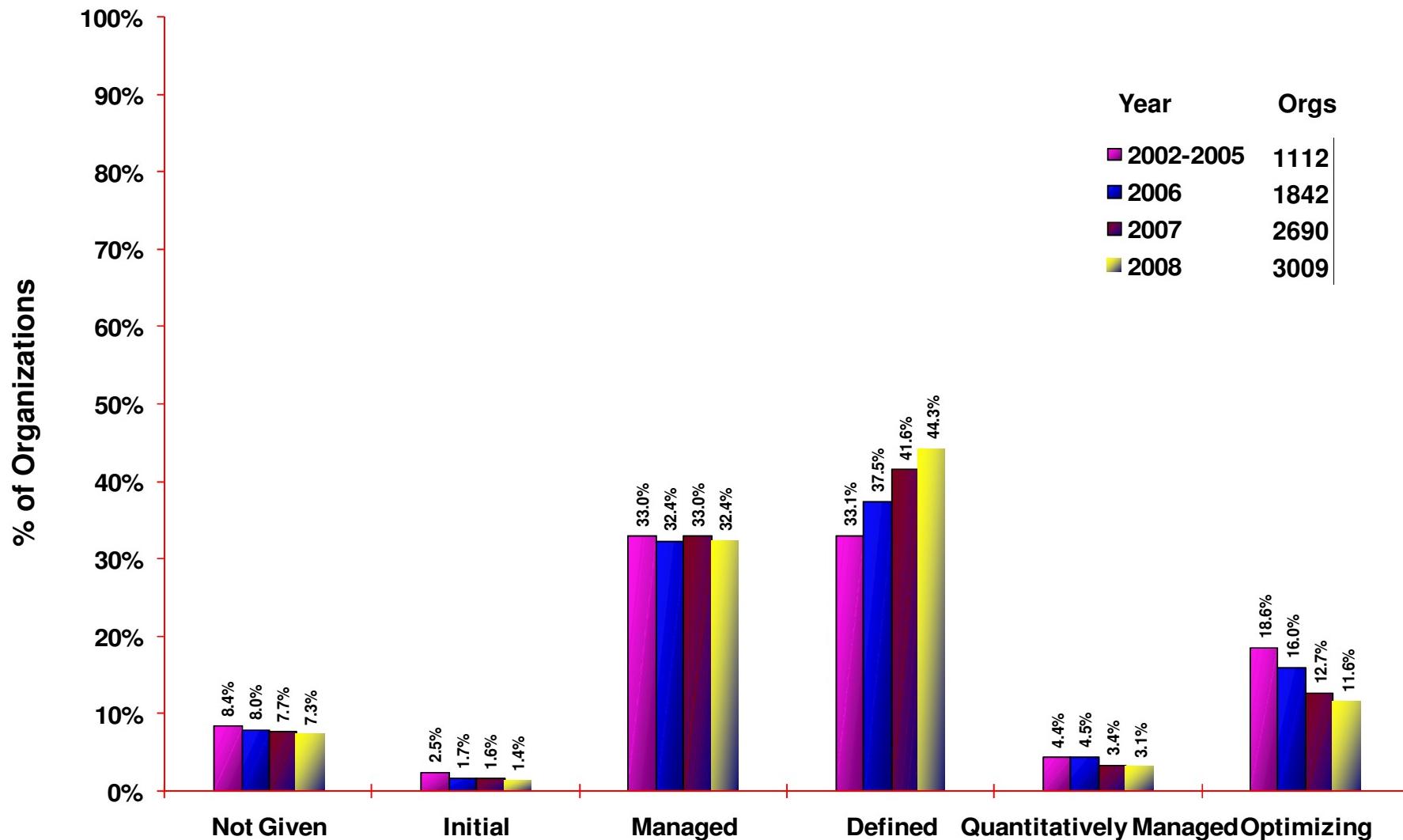
Number of SCAMPI A Appraisals Reported to SEI by Year



Based on 3553 appraisals



Trends in the Community Maturity Profile



Based on a cumulative view of the most recent appraisals of organizations up through the year indicated



Section 3: Organizational Trends

Appraisals conducted through June 2008 and reported to the SEI

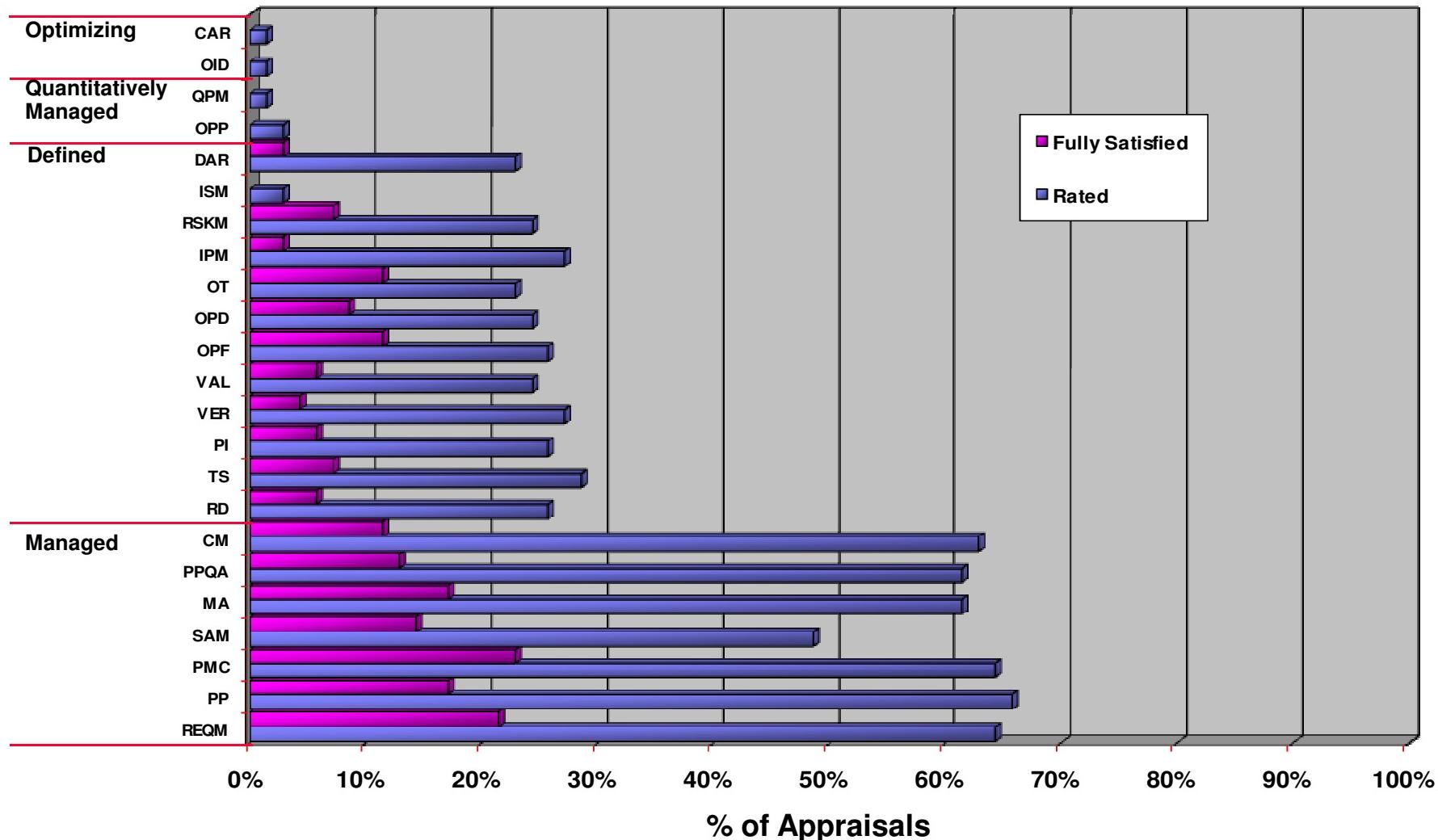
- **1,227 Process Area (PA) profiles**
 - satisfaction of PAs by maturity level for organizations appraised at levels 1 and 2
- **451 reappraised organizations**
 - accounting for 995 appraisals
 - although some organizations conducted multiple reappraisals, only the first and latest appraisals were used in creating the charts on pages 26

Please refer to: Terms Used in this Report on page 30



Process Area Profiles - 1

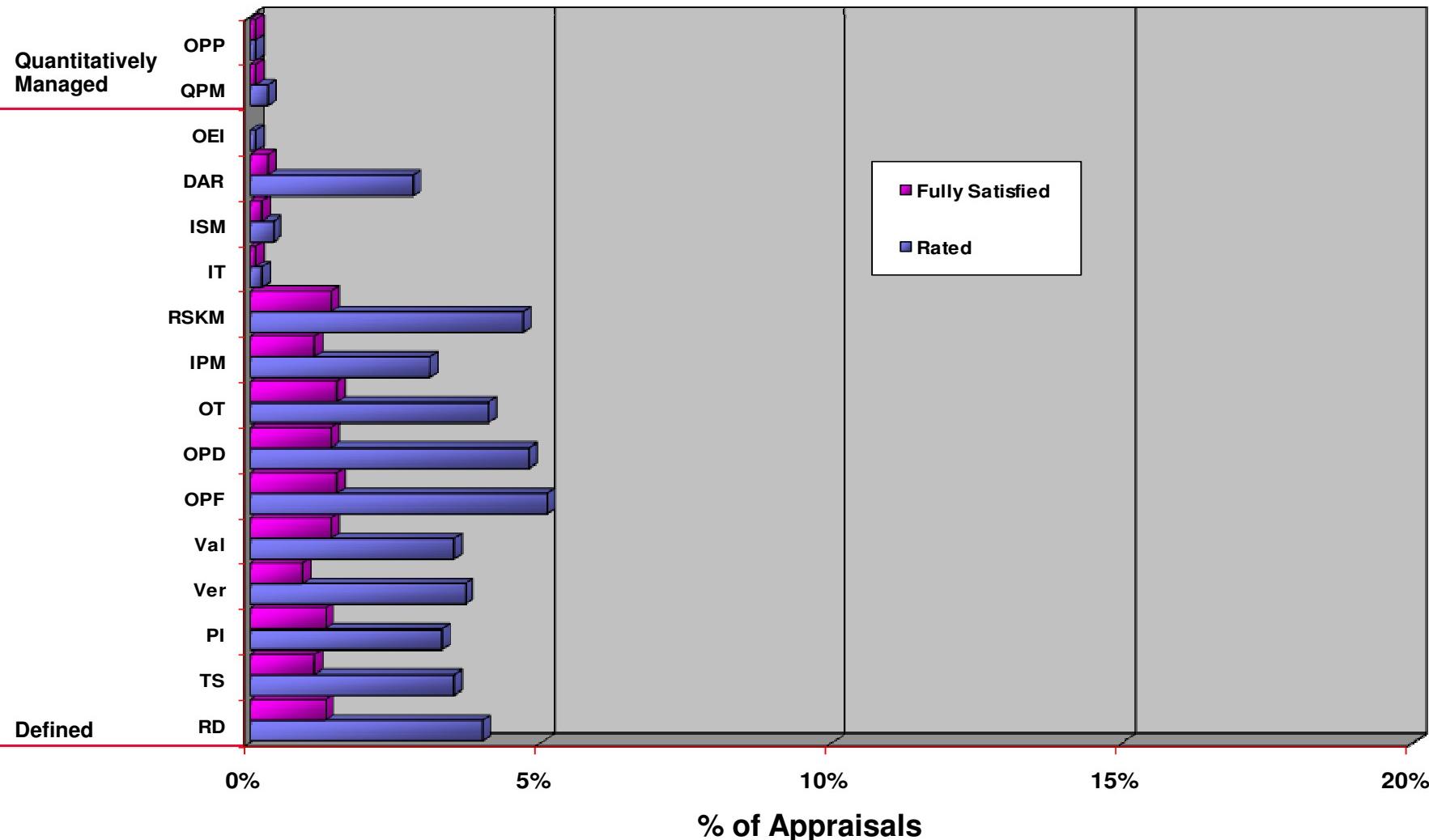
Organizations Appraised at Maturity Level 1



Based on 70 appraisals reporting a maturity level 1 rating



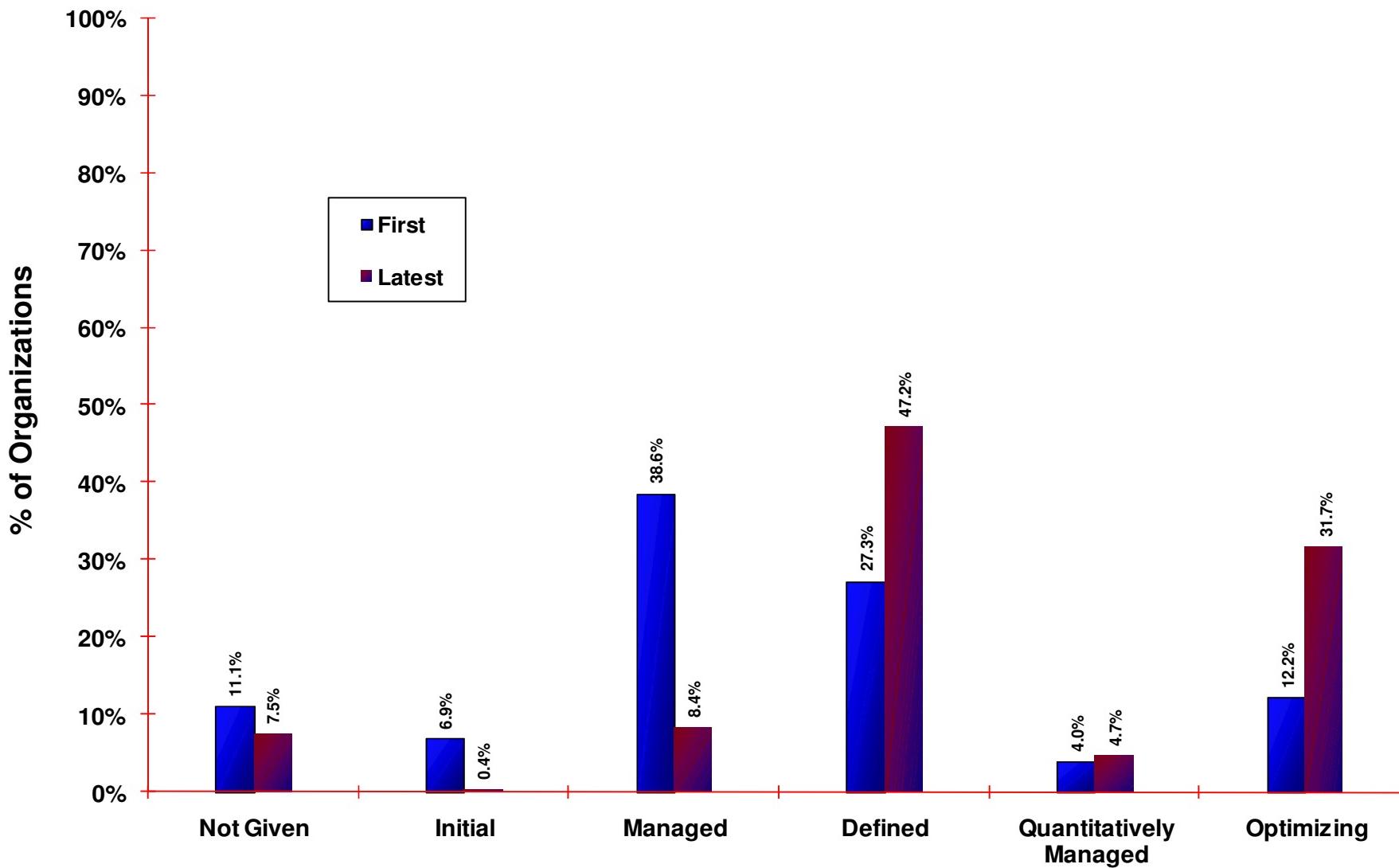
Process Area Profiles - 2 Organizations Appraised at Maturity Level 2



Based on 1157 appraisals reporting a maturity level 2 rating



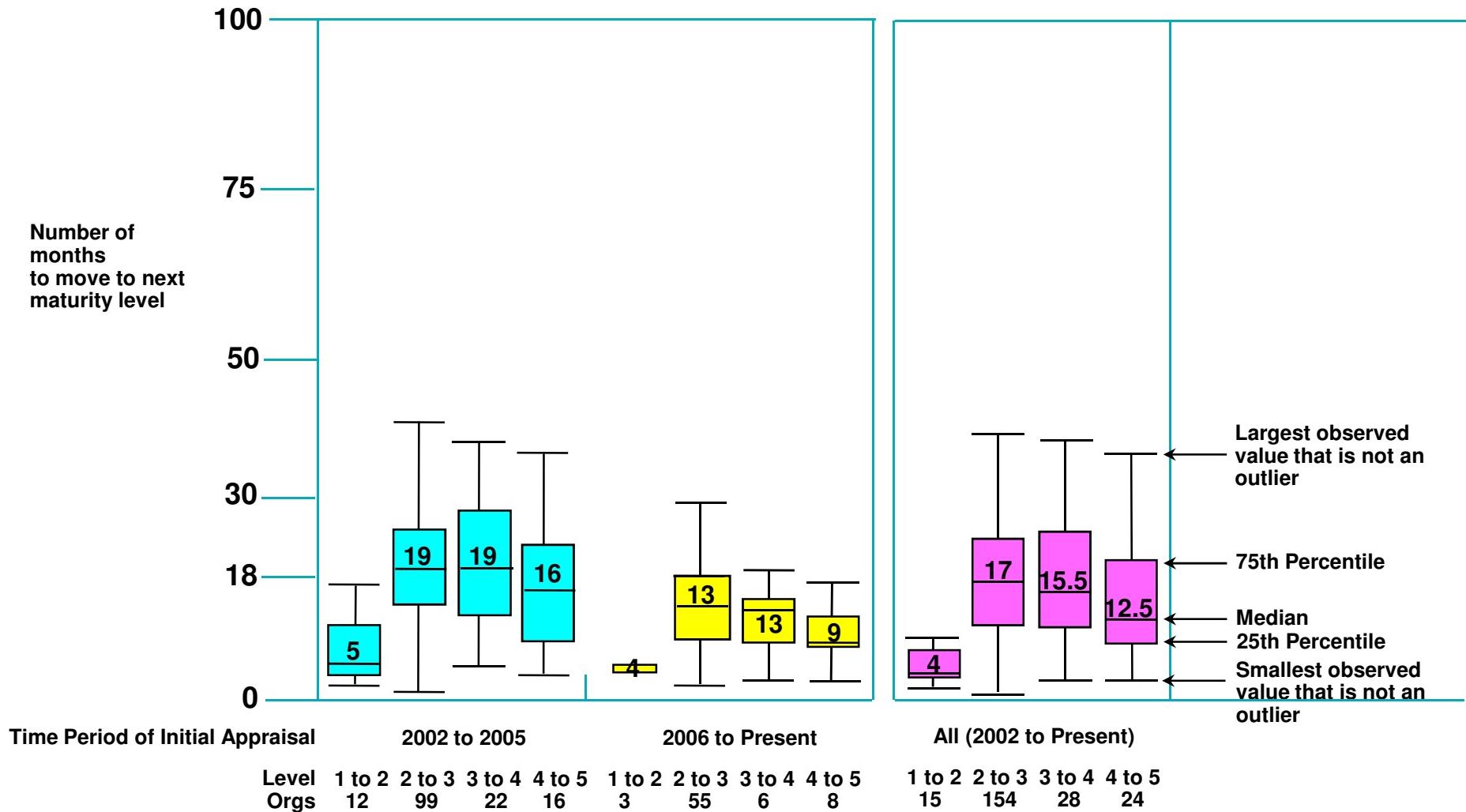
Maturity Level of First and Latest Appraisal



Based on 451 reappraised organizations using their first and latest appraisal



Time to Move Up





Summary - 1

3553 appraisals have been reported to the SEI in 76 months

The Organization Category of “Commercial/In-house” reports most of the appraisals

The highest percentage of “Commercial/In-house” reporting appraisals is from outside the USA

The highest percentage of “Military/Government Agency” reporting appraisals is from the USA

Outside the USA: China, India, Spain, Argentina, Brazil and Malaysia reported appraisals are increasing at a rapid rate



Summary - 2

For organizations that began their CMMI-based SCAMPI effort in 2002 or later, the median time to move from:

- **maturity level 1 to 2 is 4 months**
- **maturity level 2 to 3 is 17 months**
- **maturity level 3 to 4 is 15.5 months**
- **maturity level 4 to 5 is 12.5 months**



Terms Used in this Report

Company

- Parent of the appraised entity

A company can be a commercial or non-commercial firm, for-profit or not for-profit business, a research and development unit, a higher education unit, a government agency, or branch of service, etc.

Organization

- a.k.a. Appraised entity

The organization unit to which the appraisal results apply. An appraised entity can be the entire company, a selected business unit, units supporting a particular product line or service, etc.

Non-USA

- Appraised entity whose geographic location is not within the United States. The parent of the appraised entity may or may not be based within the United States.



Report your Appraisal Results to the SEI

The briefing is only possible due to the cooperation of organizations and individuals sending in their appraisal results to the SEI

In order to provide this information and service in the future, it will depend on this continued cooperation

Please visit:

<http://www.sei.cmu.edu/appraisal-program/profile/index.html>

for forms, information, and instructions on how to report appraisals to the SEI



Contact Information

Please visit:

<http://www.sei.cmu.edu/appraisal-program/profile/index.html>

and review the information provided before contacting:

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